App. Ser. No. 10/634,779 Docket No. SH-0037US RYU.014

## AMENDMENTS TO THE CLAIMS:

Please cancel claims 11-19 without prejudice or disclaimer and amend the claims as follows:

- 1. (Currently amended) An optical fiber <u>preform</u> pre-form from which an optical fiber is made by drawing, the optical fiber <u>preform comprising at least one layer and pre-form</u> having a maximum value V<sub>0</sub> [log(poise)] of a radial viscosity distribution which is greater than 7.60 [log(poise)] at a temperature T<sub>s</sub> which is a temperature at which the maximum value V<sub>0</sub>[log(poise)] of radial viscosity distribution of the optical fiber in inside area is 7.60 [log(poise)] in inside and outside area equivalent to two times of mode field diameter on which light at wavelength of about 1385nm propagates through an optical fiber made by drawing the preform pre-form.
- 2. (Currently amended) An optical fiber preform as claimed in claim 1, wherein the preform includes has a multi-layer multi layer structure comprising at least two clad layers including an inner clad layer having a first viscosity at a predetermined temperature and an outer clad layer having a second viscosity at said predetermined temperature, and said second viscosity being is greater than said first viscosity.
- 3. (Currently amended) An optical fiber preform as claimed in claim 2, wherein said inner clad layer <u>comprises</u> is formed from synthetic quartz glass and said outer clad layer <u>comprises</u> is formed from quartz glass containing crystal type silica.
- 4. (Currently amended) An optical fiber preform as claimed in claim 3, wherein <u>said</u> quartz glass containing crystal type silica as a high viscosity clad layer <u>comprises</u> is native quartz or crystallization synthetic quartz glass.
- 5. (Currently amended) An optical fiber preform as claimed in claim 2, wherein said inner

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App. Ser. No. 10/634,779 Docket No. SH-0037US **RYU.014** 

clad layer comprises is formed from synthetic quartz glass having a lower viscosity than pure synthetic quartz glass by being doped with at least one dopant selected from the group of dopants essentially consisting of chlorine, germanium, fluorine, and phosphorus, and said outer clad layer comprises is formed from synthetic quartz glass having a higher viscosity than the inner clad layer by not being doped or doped with small amount of dopant.

- (Currently amended) An optical fiber preform as claimed in claim 1, wherein said a 6. maximum value V<sub>0</sub> of said radial viscosity distribution is greater than 7.90 [log(poise)].
- (Currently amended) An optical fiber preform as claimed in claim 12, wherein said at 7. least one layer in which a clad comprises at least two layers including an inner clad layer and an outer clad layer with high viscosity.
- (Currently amended) An optical fiber preform as claimed in claim 1, wherein said at least one layer comprises an the outermost clad layer having has a viscosity less than Vo at the temperature Ts.
- (Original) An optical fiber preform as claimed in claim 1, wherein a surface of the 9. optical fiber preform has a viscosity at temperature  $T_s$  which is lower than  $V_0$ .
- (Currently amended) An optical fiber preform as claimed in claim 1, wherein a portion of 10. said preform which includes containing at least a core and an inner clad layer is formed by one of vapor axial deposition (VAD), outside vapor deposition (OVD), modified chemical vapor deposition (MCVD), plasma chemical vapor deposition (PCVD) VAD method, OVD method, MCVD method, and PCVD method, and a combination of any of these or by an appropriate combination-thereof.

Claims 11-19. (Canceled)

App. Ser. No. 10/634,779 Docket No. SH-0037US RYU.014

- 20. (Currently amended) An optical fiber manufactured by heating and drawing a preform, said preform including at least one layer and having a maximum value  $V_0$  [log(poise)] of a radial viscosity distribution which is greater than 7.60 [log(poise)] at a temperature  $T_s$  which is a temperature at which the maximum value  $V_0$ [log(poise)] of radial viscosity distribution of the optical fiber in inside area is 7.60 [log(poise)] in inside and outside area equivalent to two times of mode field diameter on which light at wavelength of about 1385nm propagates through an optical fiber made by drawing the preform pre-form.
- 21. (Currently amended) An optical fiber as claimed in claim 20, wherein a transmission loss at wavelength of 1385 nm is equal to or less than 0.36db/km, preferably equal to or less than 0.30db/km.
- 22. (Currently amended) An optical fiber as claimed in claim 20, wherein a transmission loss at wavelength of 1385 nm is equal to or less than 0.35db/km, in <u>a</u> case that said optical fiber is exposed to atmosphere containing 1% hydrogen for four days.
- 23. (Currently amended) An optical fiber as claimed in claim 20, wherein a transmission loss at wavelength of 1385 nm, in a case that the optical fiber is exposed to atmosphere containing 1% hydrogen for four days, does not substantially change compared with transmission loss at wavelength of 1385 nm before being exposed to the atmosphere.
- 24. (New) An optical fiber as claimed in claim 20, wherein said transmission loss at a wavelength of 1385 nm is no greater than 0.30db/km.
- 25. (New) An optical fiber preform as claimed in claim 1, wherein said at least one layer comprises:

an inner clad layer formed on a core and having a first viscosity at said temperature, Ts; and

an outer clad layer formed on said inner clad layer and having a second viscosity at said

App. Ser. No. 10/634,779 Docket No. SH-0037US RYU.014

temperature, T<sub>s</sub>, said second viscosity being greater than said first viscosity.

- 26. (New) An optical fiber preform as claimed in claim 25, wherein said core comprises guartz glass doped with germanium, such that said temperature T<sub>5</sub> is about 1600 °C.
- 27. (New) An optical fiber preform as claimed in claim 25, wherein said at least one layer further comprises:

another outer clad layer formed on said outer clad layer and having a third viscosity which is lower than said second viscosity.

- 28. (New) An optical fiber preform as claimed in claim 2, wherein a diameter of said inner clad layer is less than 80% of an outer diameter of said preform.
- 29. (New) A preform for an optical fiber, said preform comprising:
  a plurality of layers, a maximum value, V<sub>0</sub>, of a radial viscosity distribution in said
  plurality of layers being greater than 7.60 [log(poise)] at a temperature, T<sub>s</sub>,

wherein  $T_s$  is a temperature at which the maximum value,  $V_0$ , of radial viscosity distribution of an inside area of the optical fiber is 7.60 [log(poise)].